

9.8. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KCB 987594 D02, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only RU26 tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

Band	Tones	*20MHz (RBW/VBW)	*40MHz (RBW/VBW)	*80MHz (RBW/VBW)	*160MHz (RBW/VBW)
UNII-5/6/7/8	Partial RU	106T: 300kHz/910kHz MRU 106+26T: 300kHz/910kHz	106T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz	MRU 52+26T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz	52T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz MRU 484+242T: 1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

*Different RBW/VBW settings due to different partial tones.

RESULTS

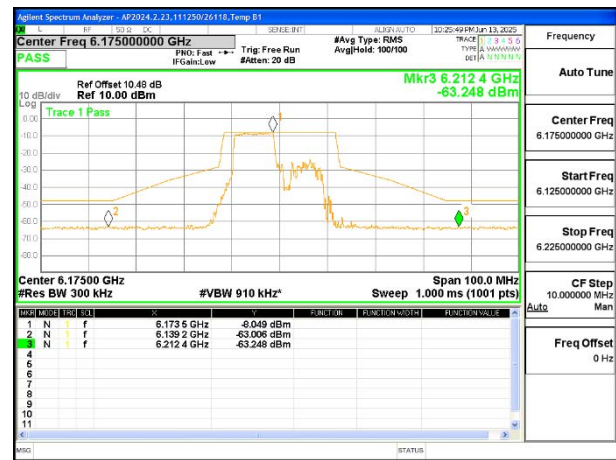
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are the worst case.

9.8.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

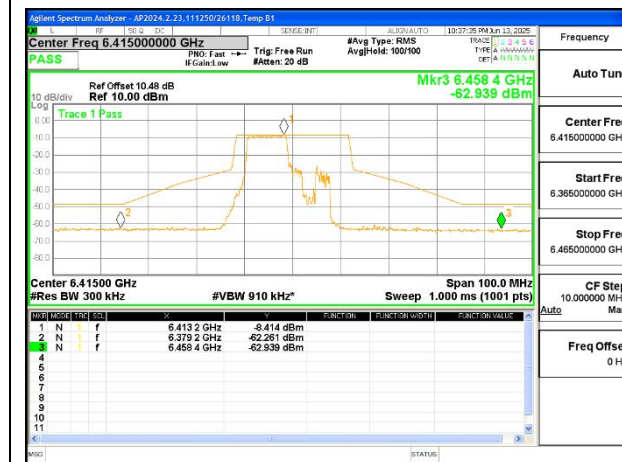
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 Tone, RU Index 53



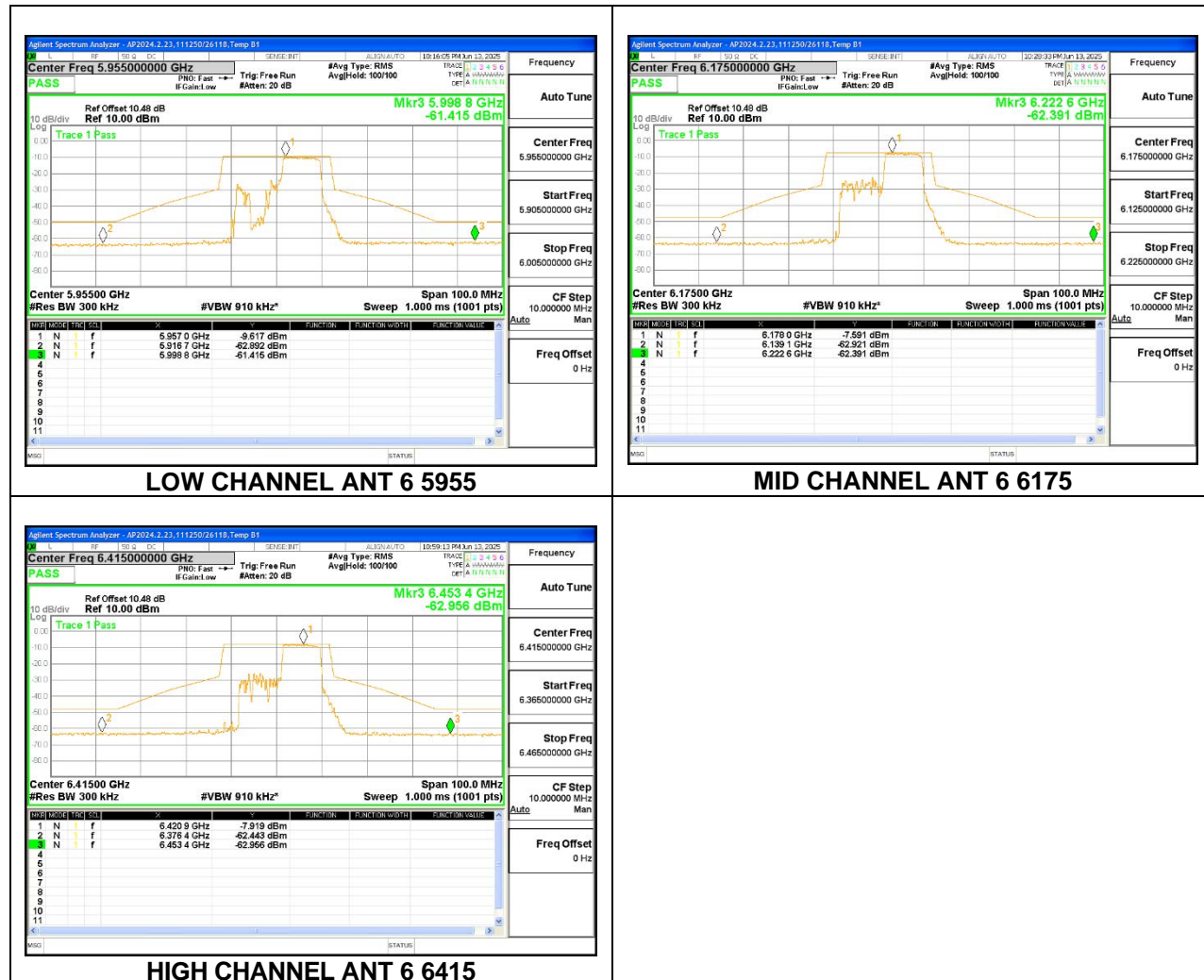
LOW CHANNEL ANT 6 5955

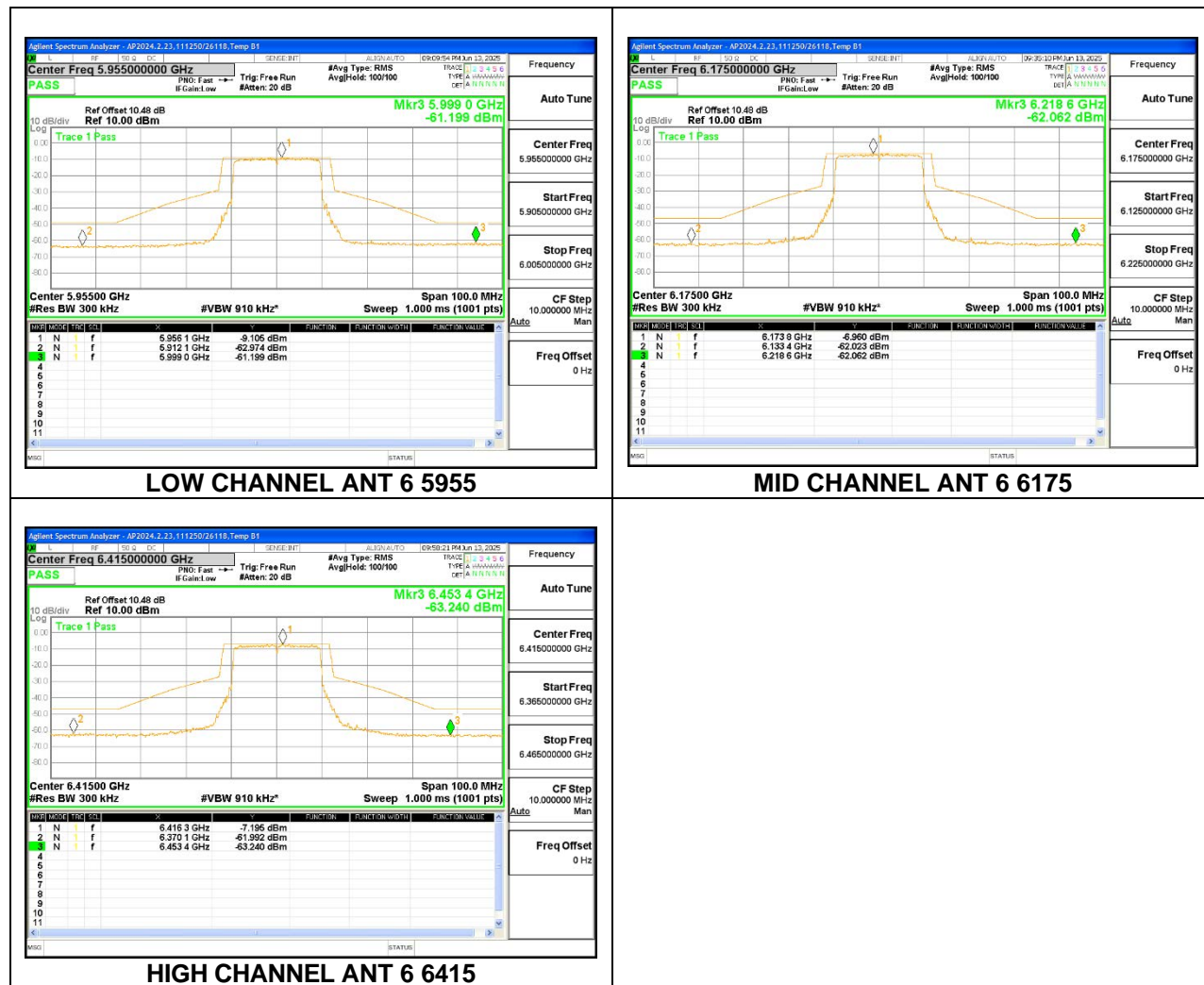


MID CHANNEL ANT 6 6175

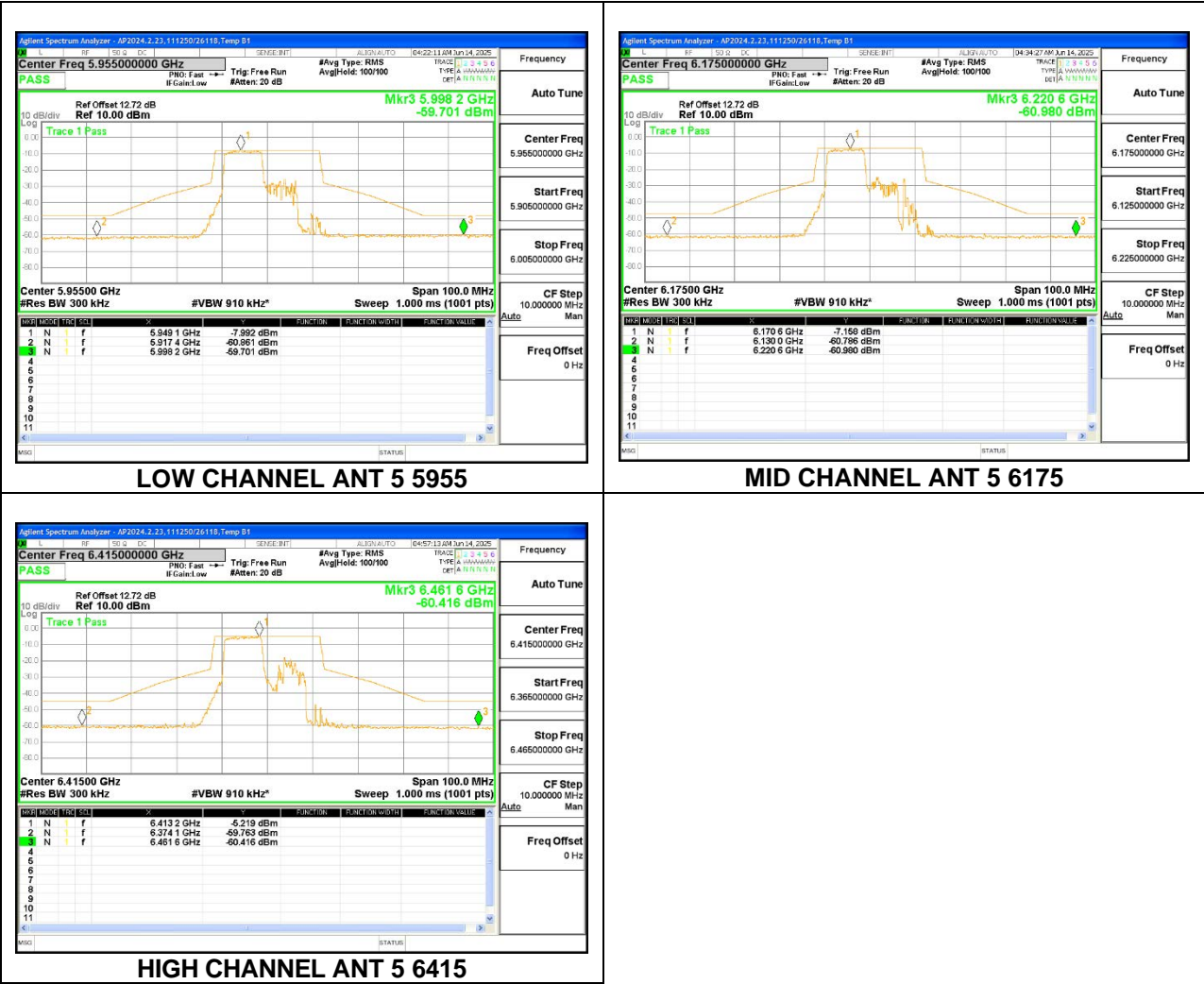


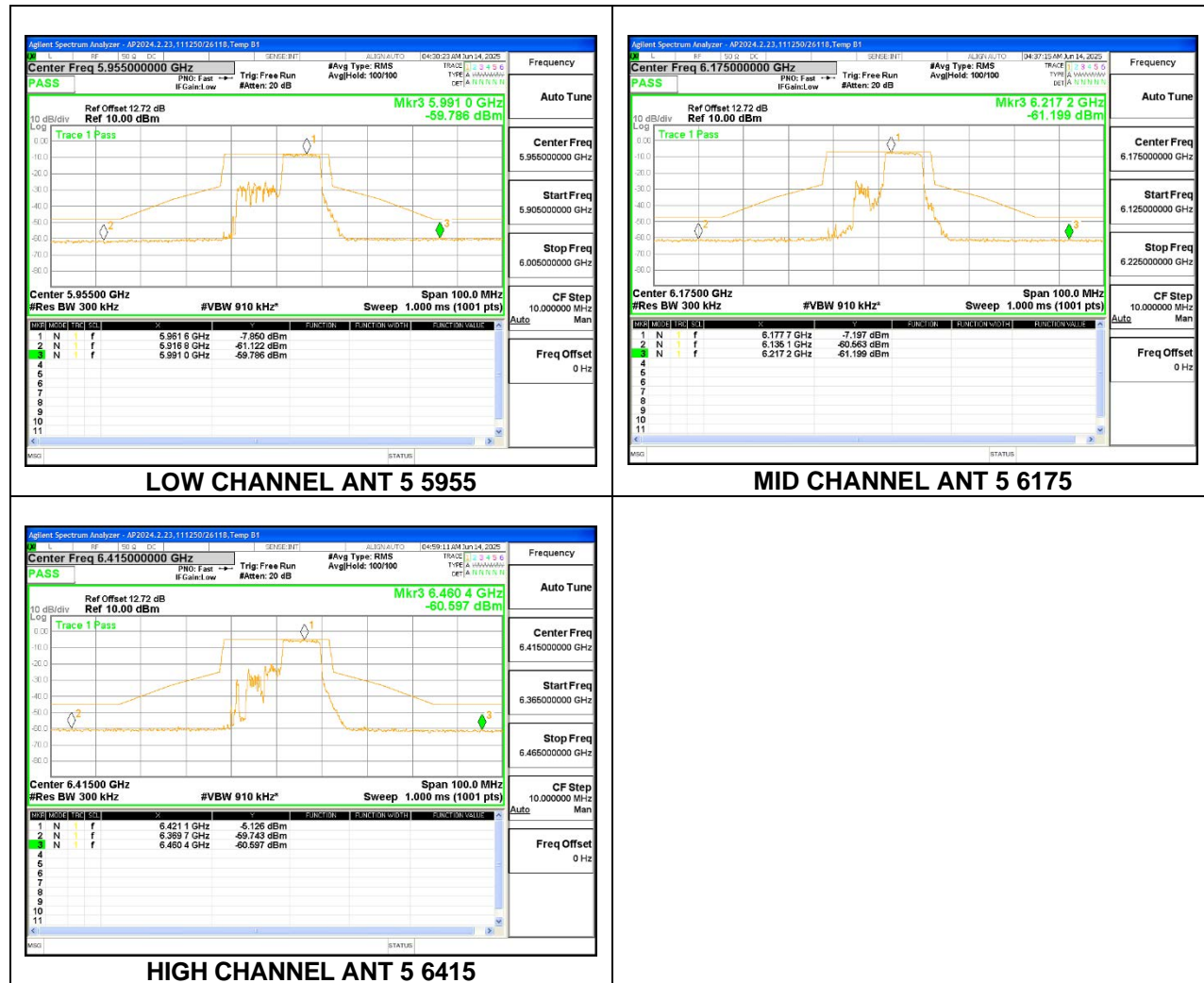
HIGH CHANNEL ANT 6 6415

1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 Tone, RU Index 54

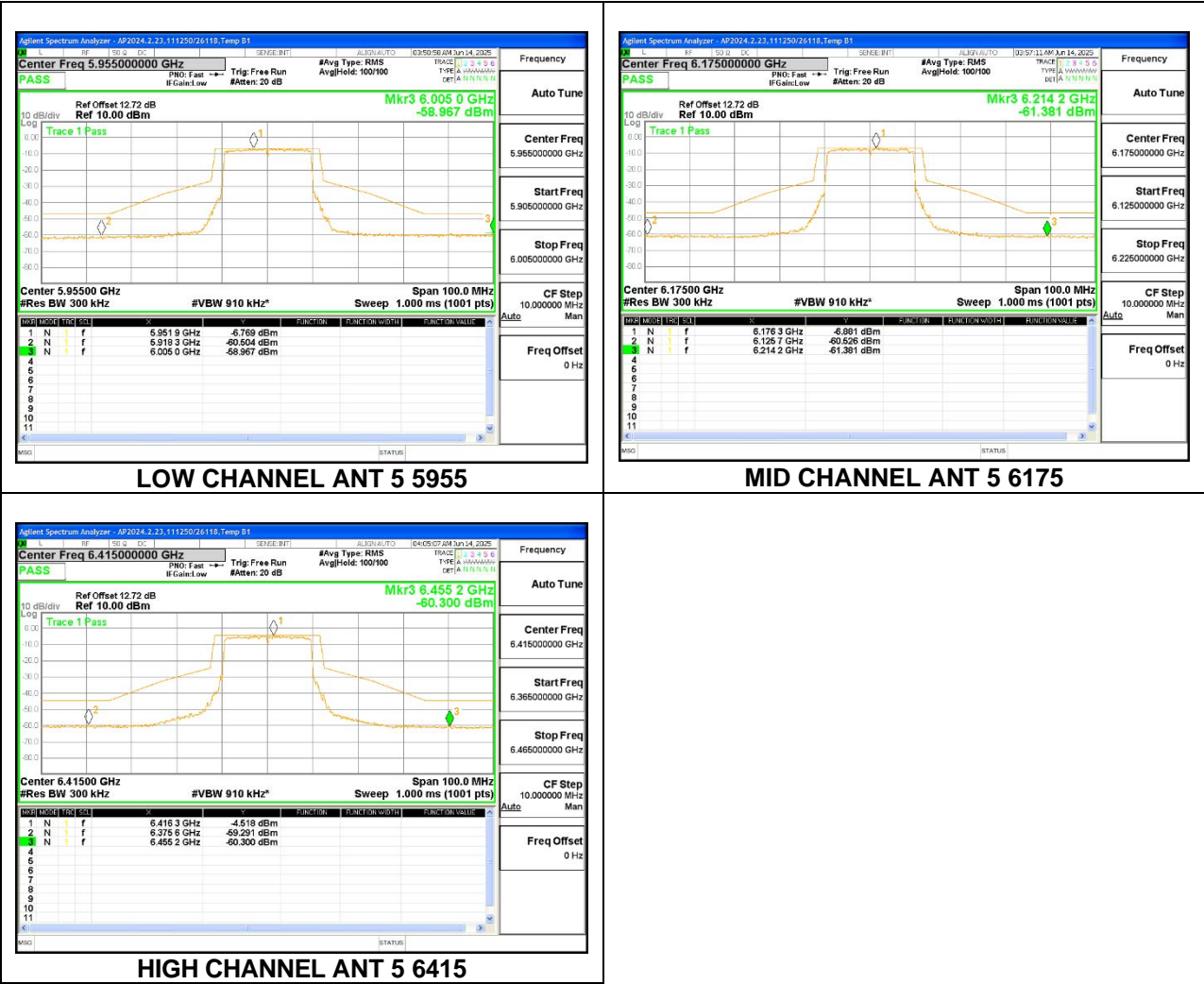
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

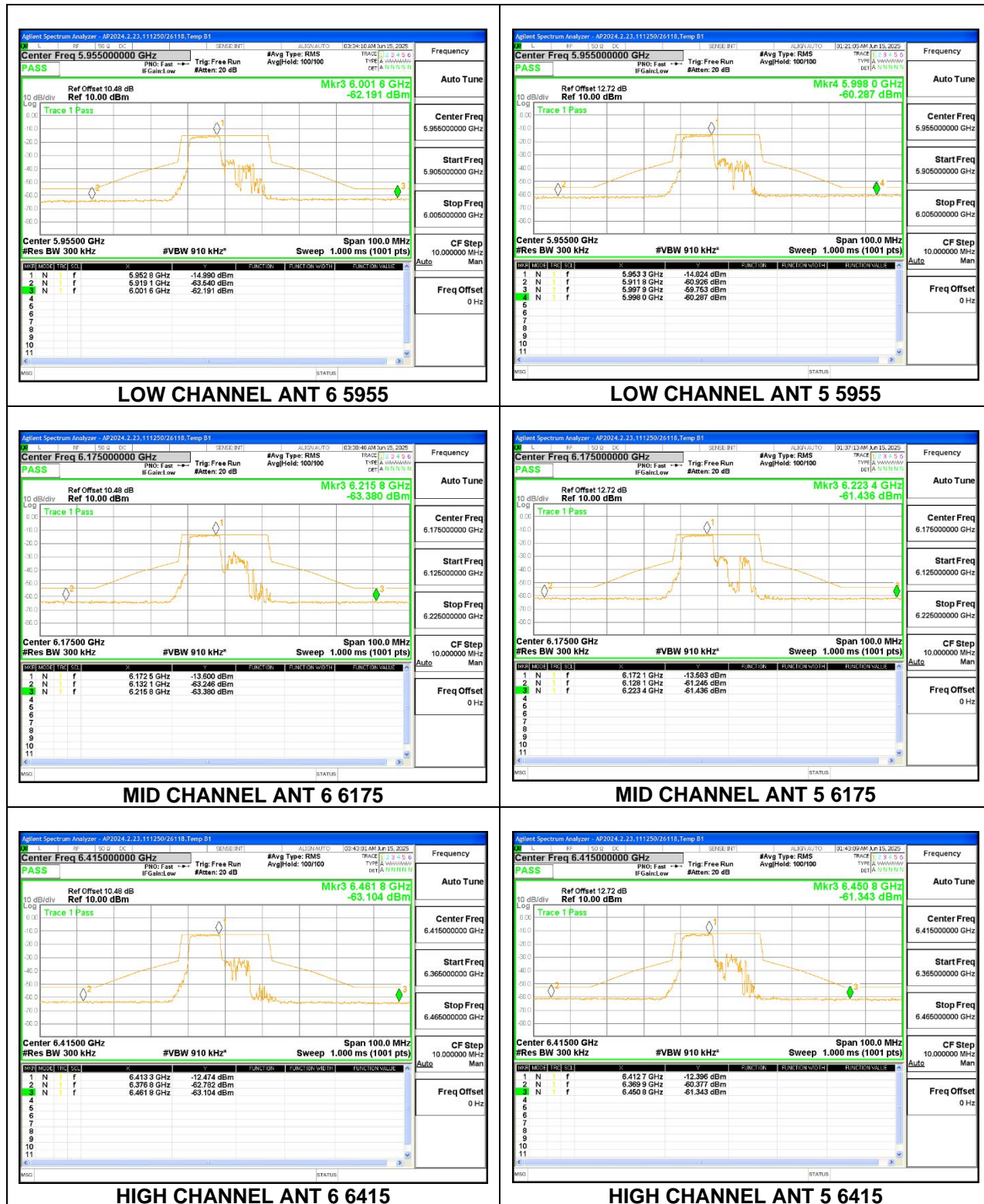
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 Tone, RU Index 53

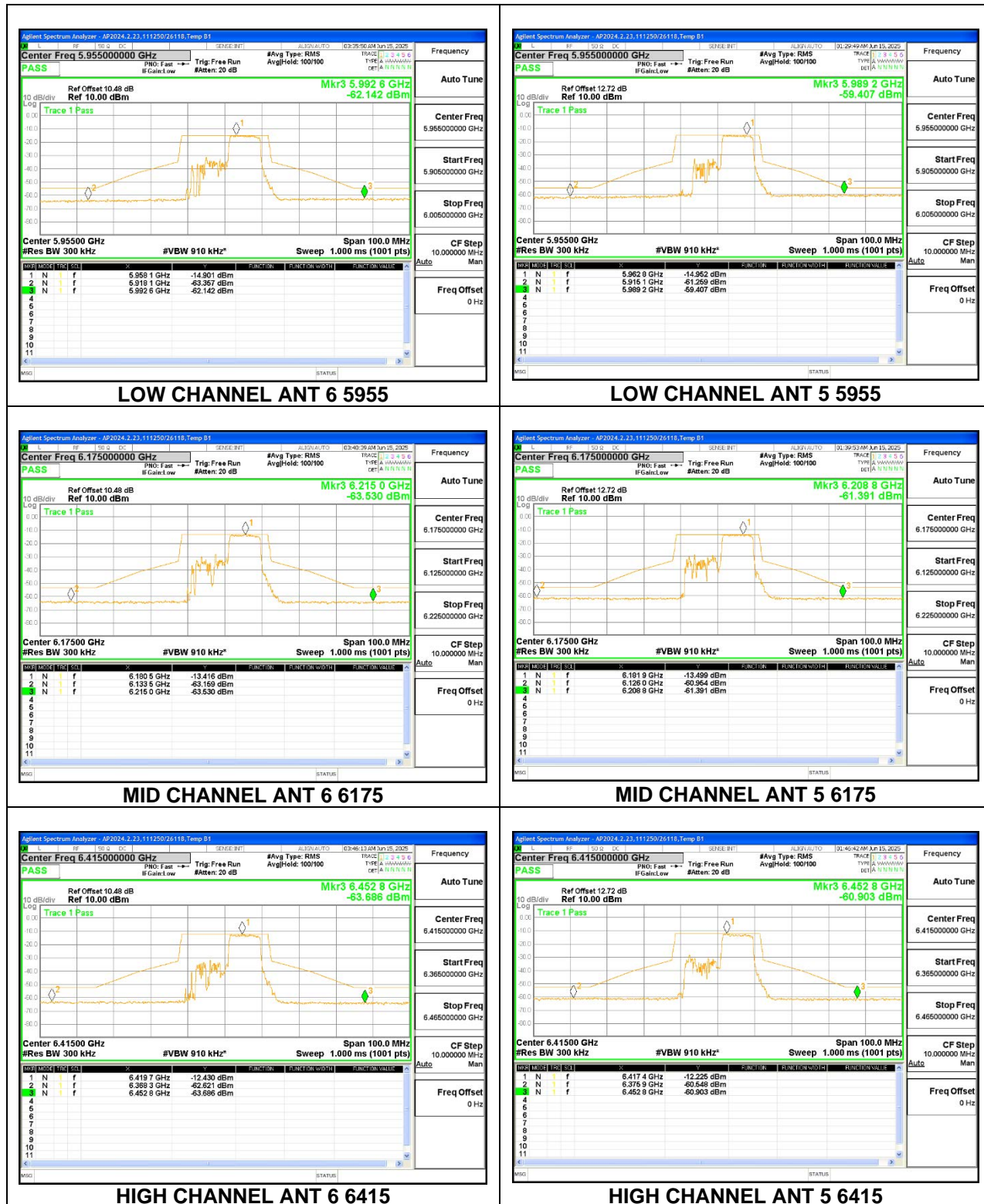


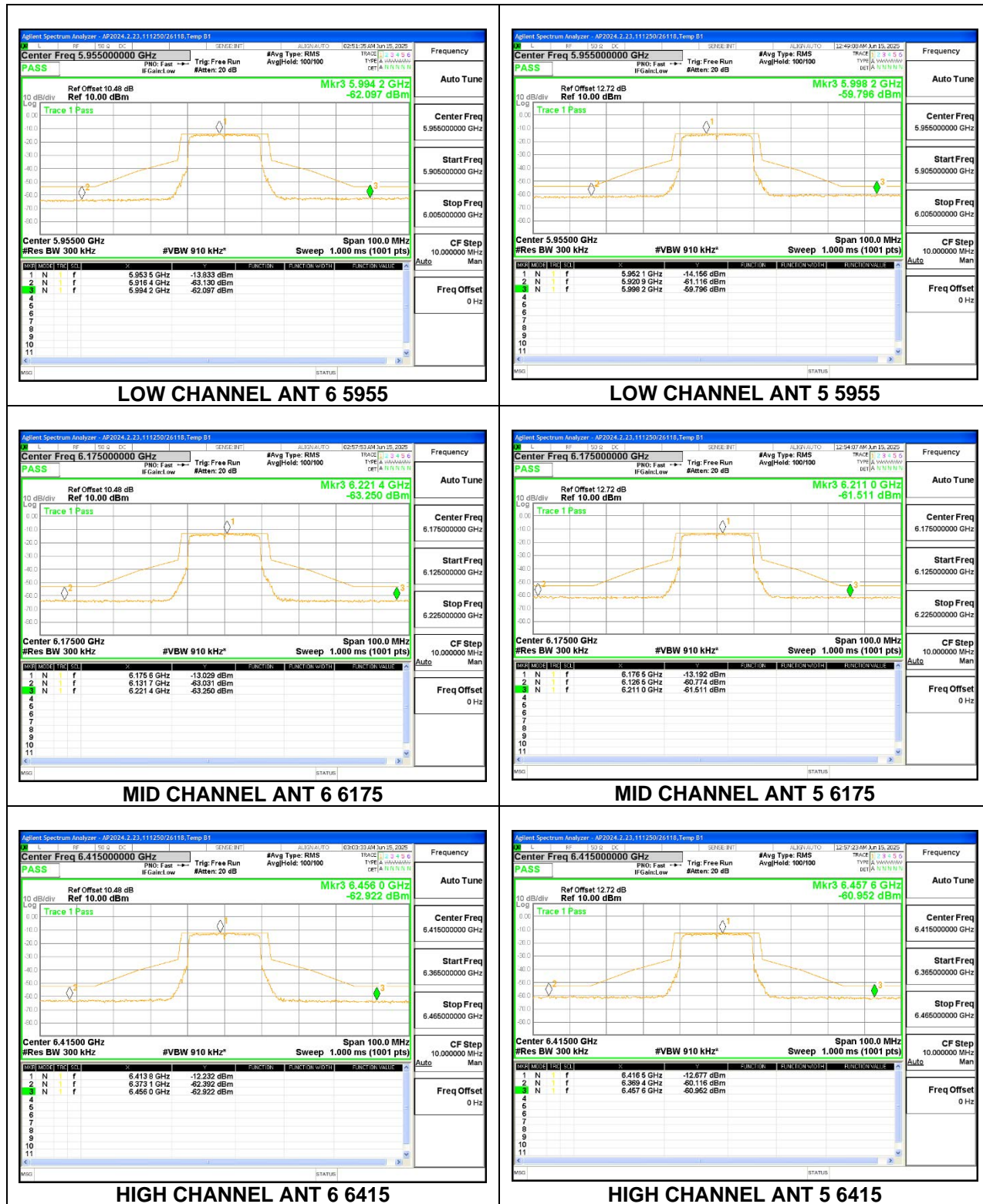
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 Tone, RU Index 54

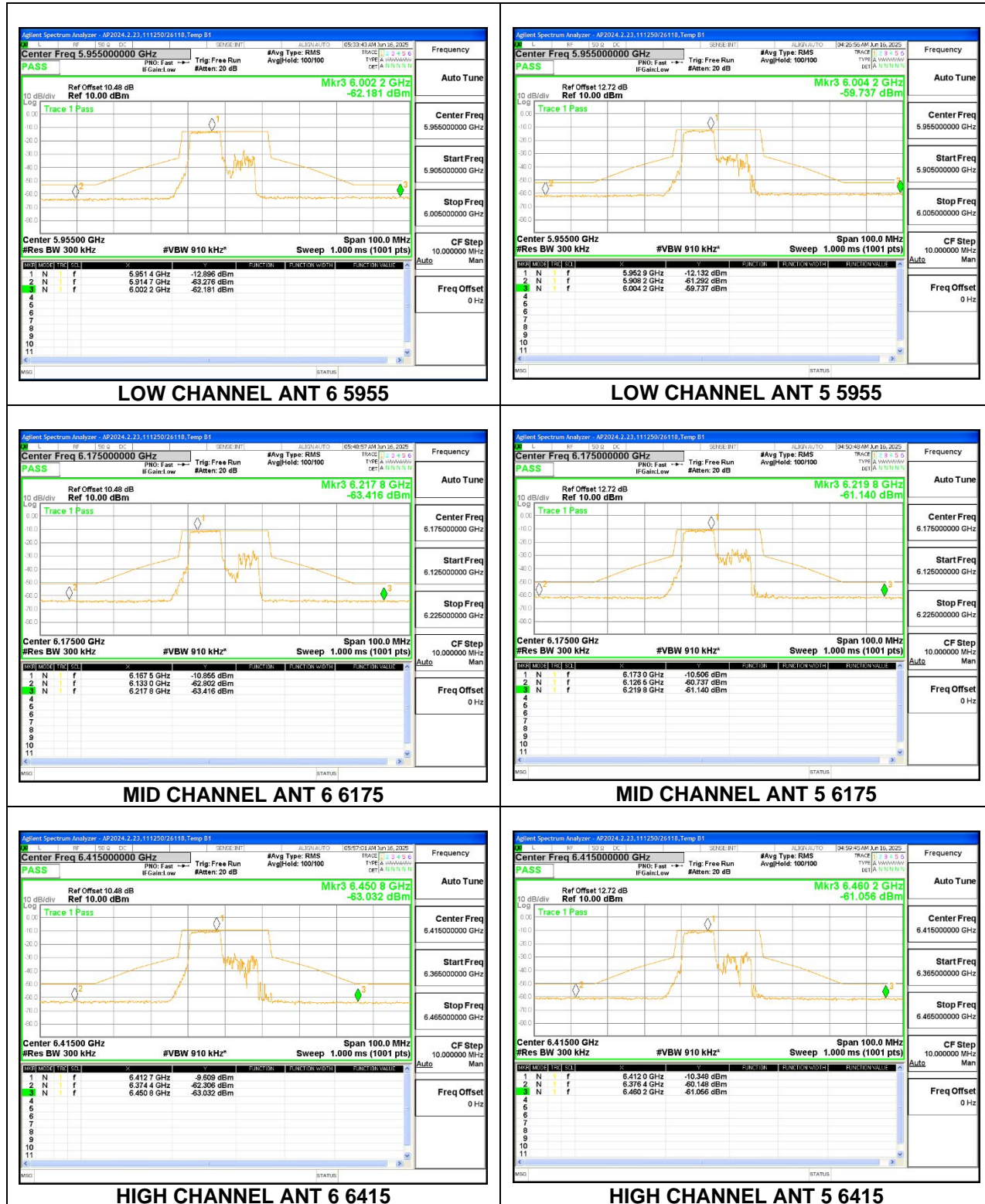
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

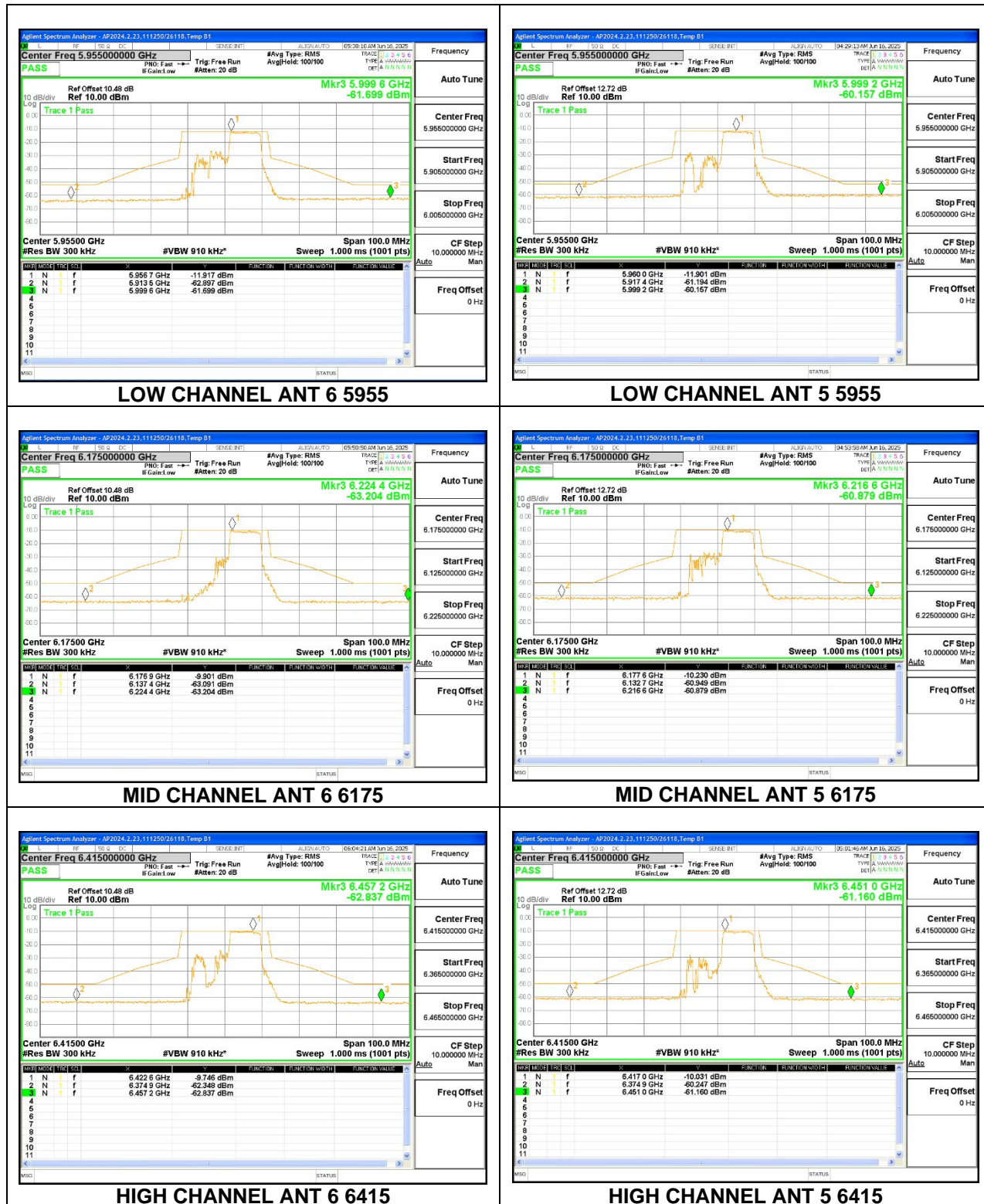


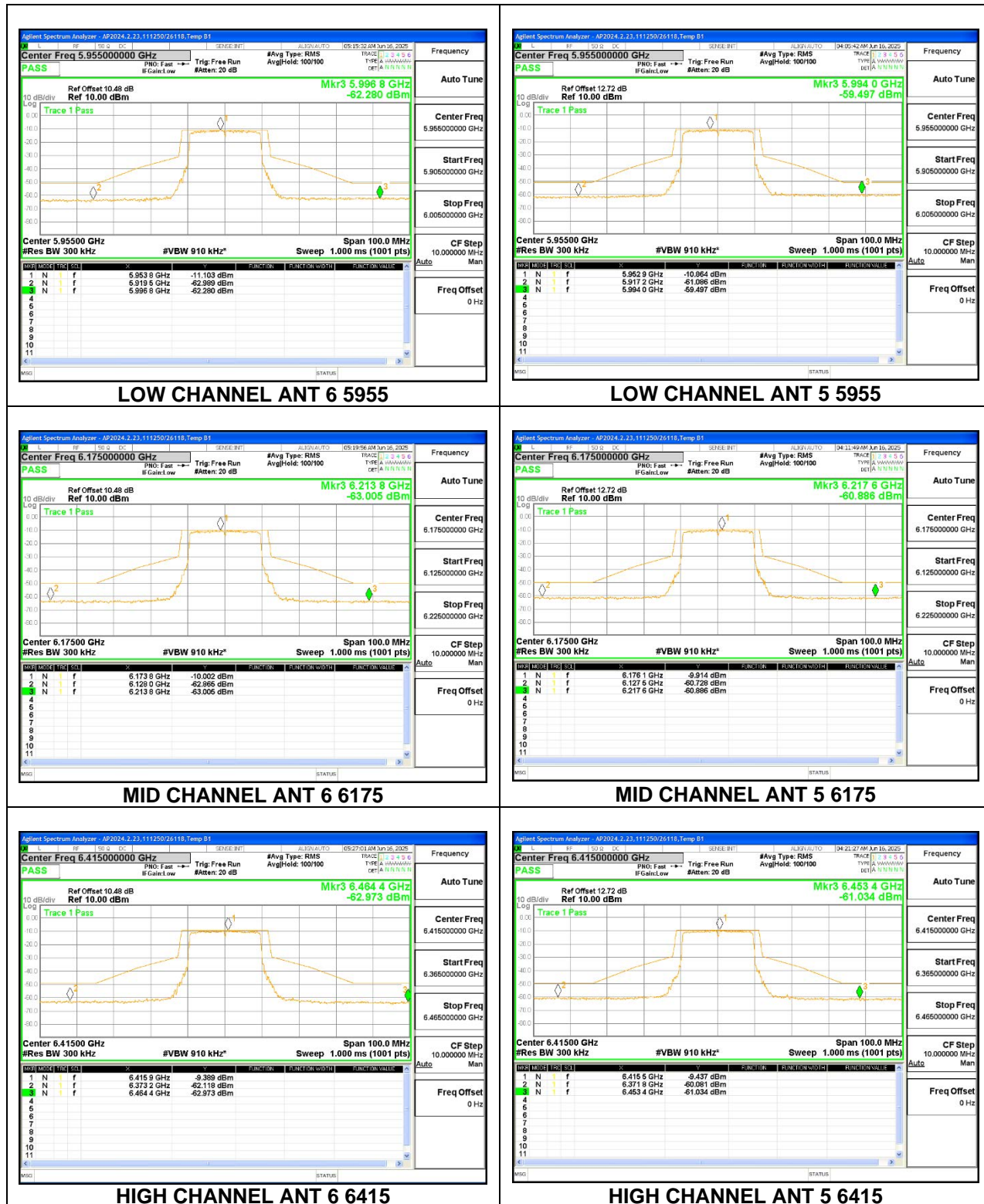
2TX Antenna 6 + Antenna 5 CDD MODE (FCC-IC) – 106 Tone, RU Index 53

2TX Antenna 6 + Antenna 5 CDD MODE (FCC-IC) – 106 Tone, RU Index 54

2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – SU MODE

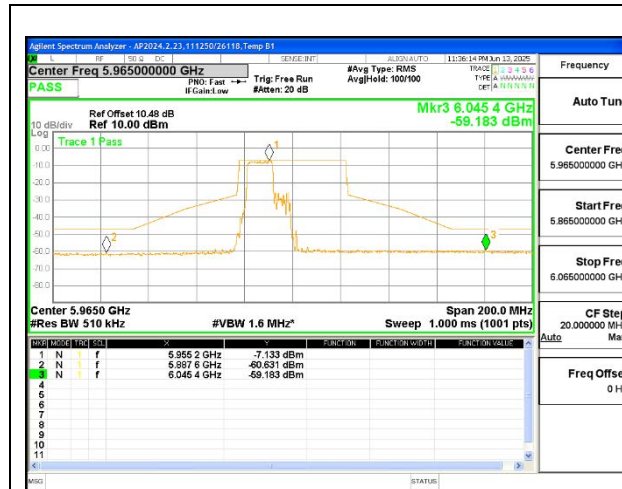
2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106 Tone, RU Index 53

2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106 Tone, RU Index 54

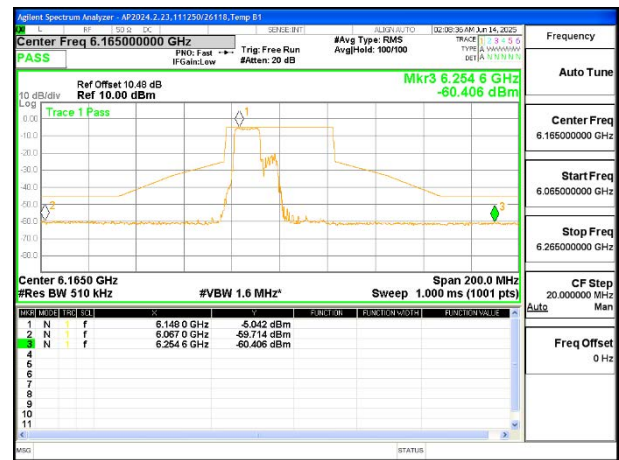
2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – SU Mode

9.8.2. 802.11be EHT40 MODE IN THE UNII-5 BAND

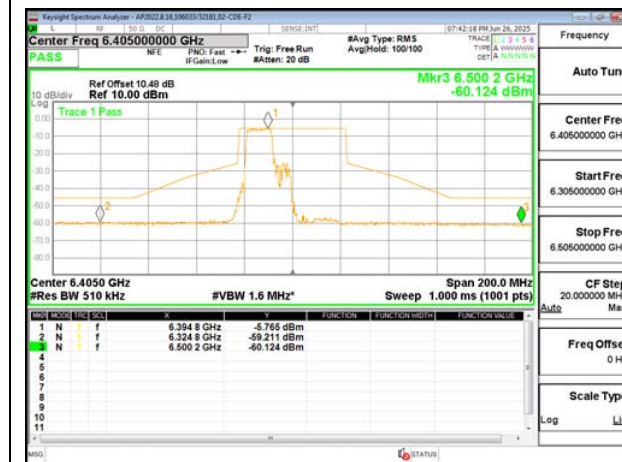
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82



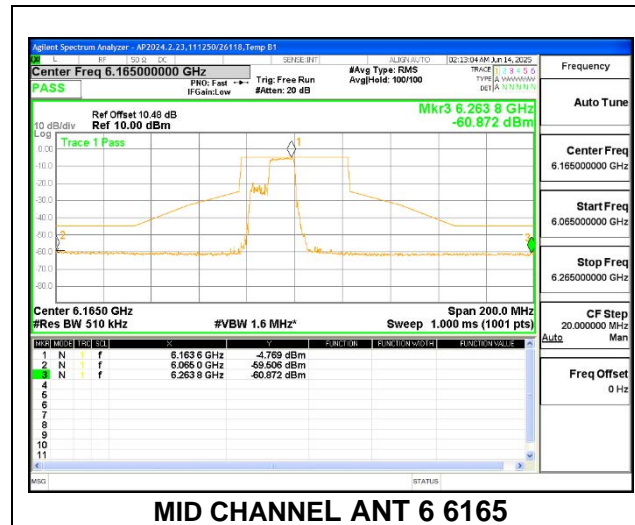
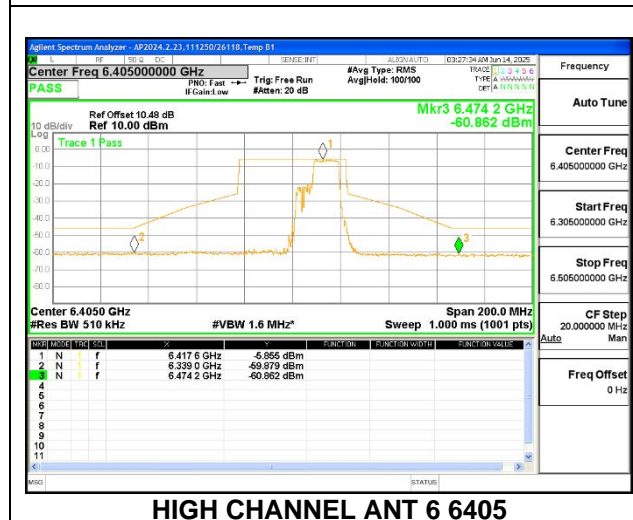
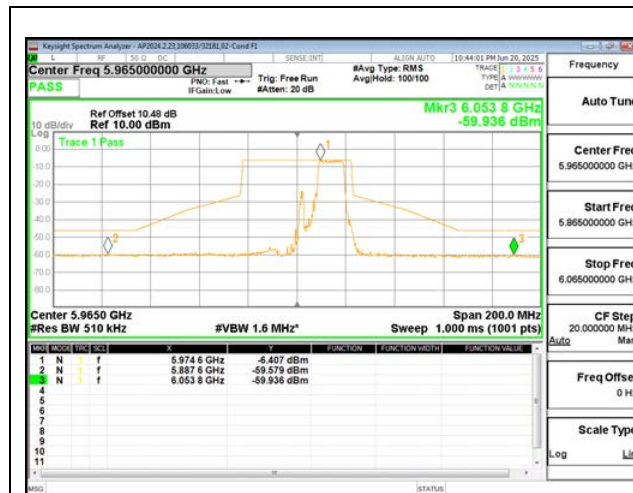
LOW CHANNEL ANT 6 5965

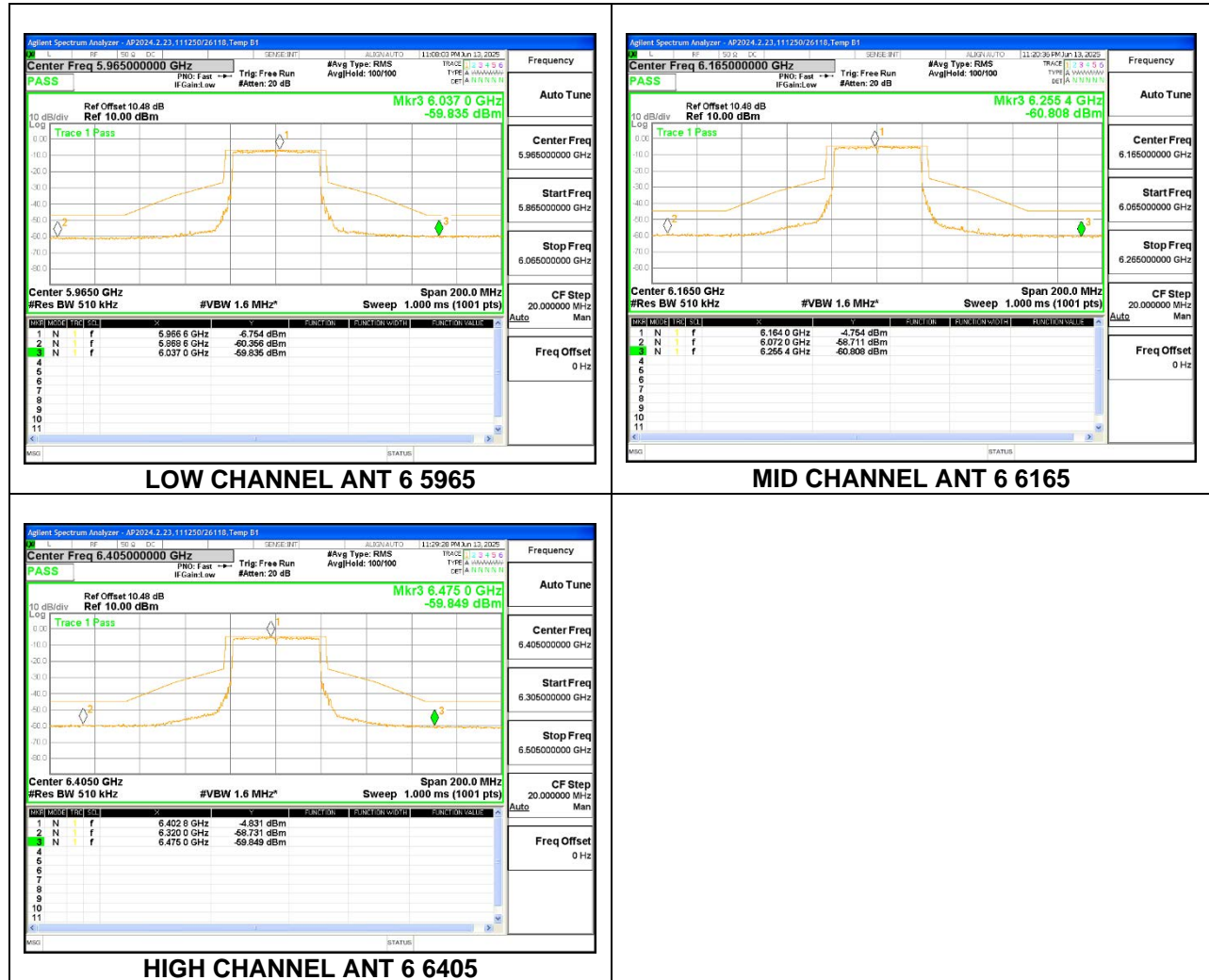


MID CHANNEL ANT 6 6165

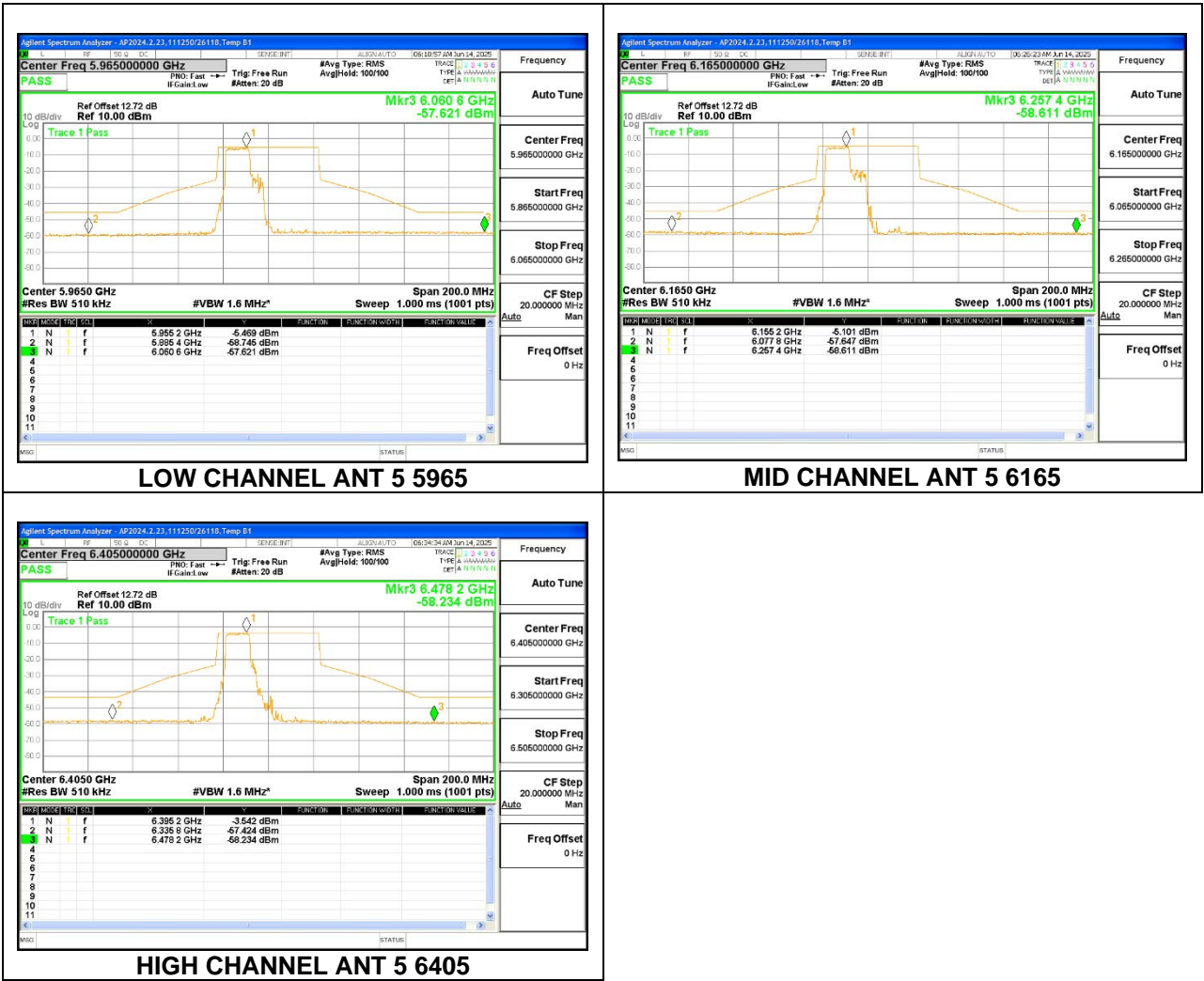


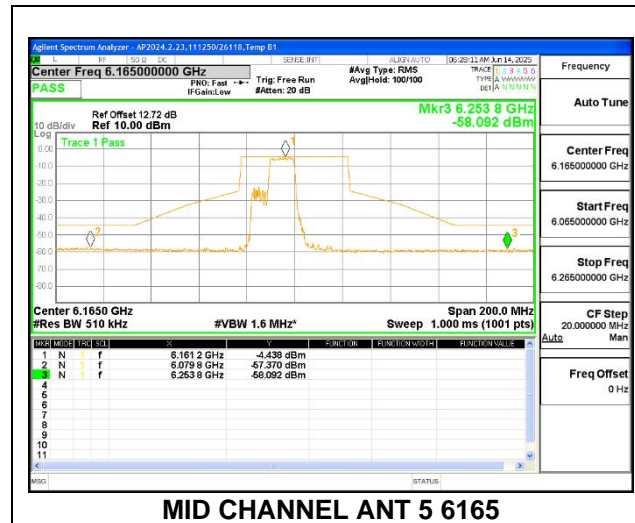
HIGH CHANNEL ANT 6 6405

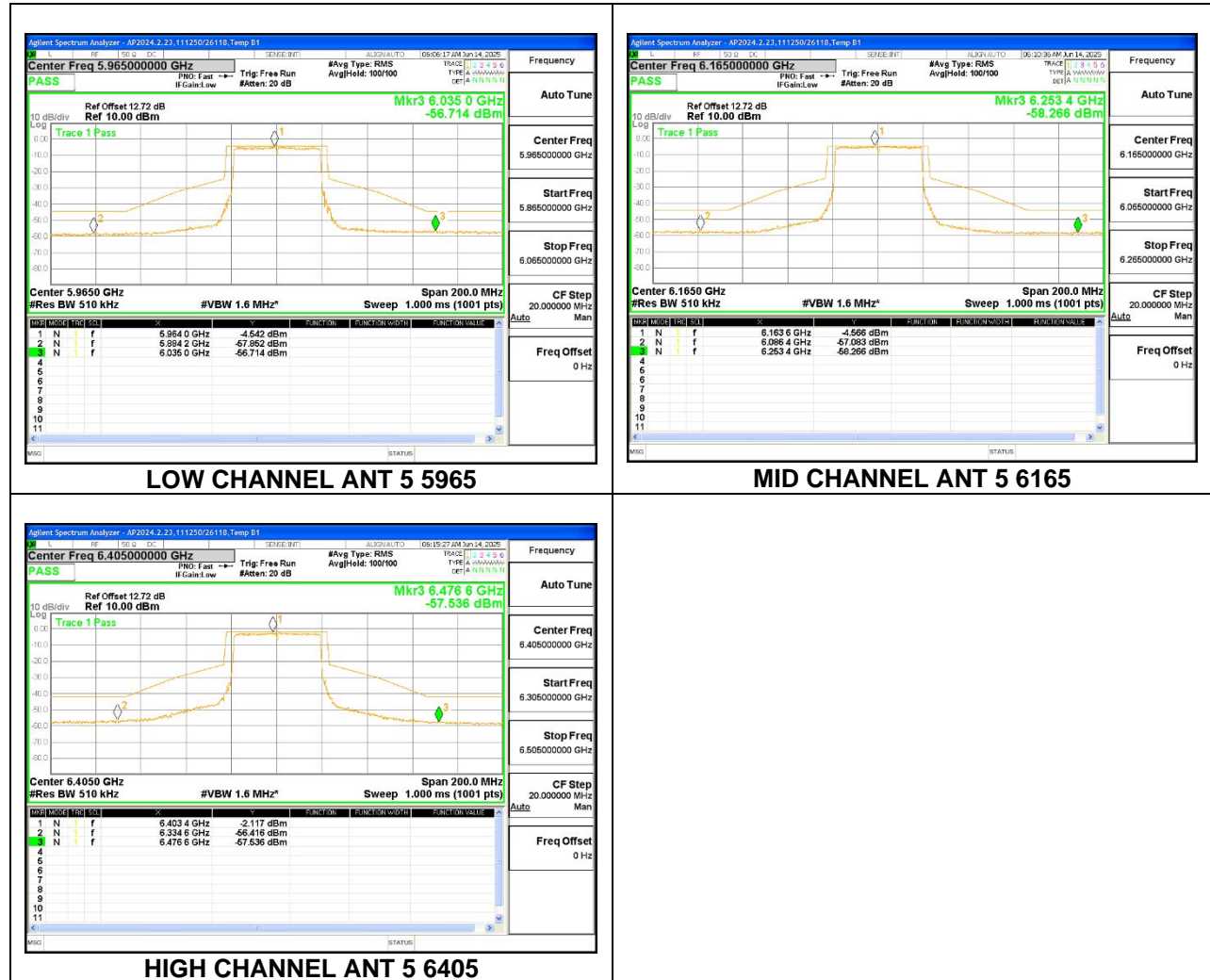
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 83**1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 85**

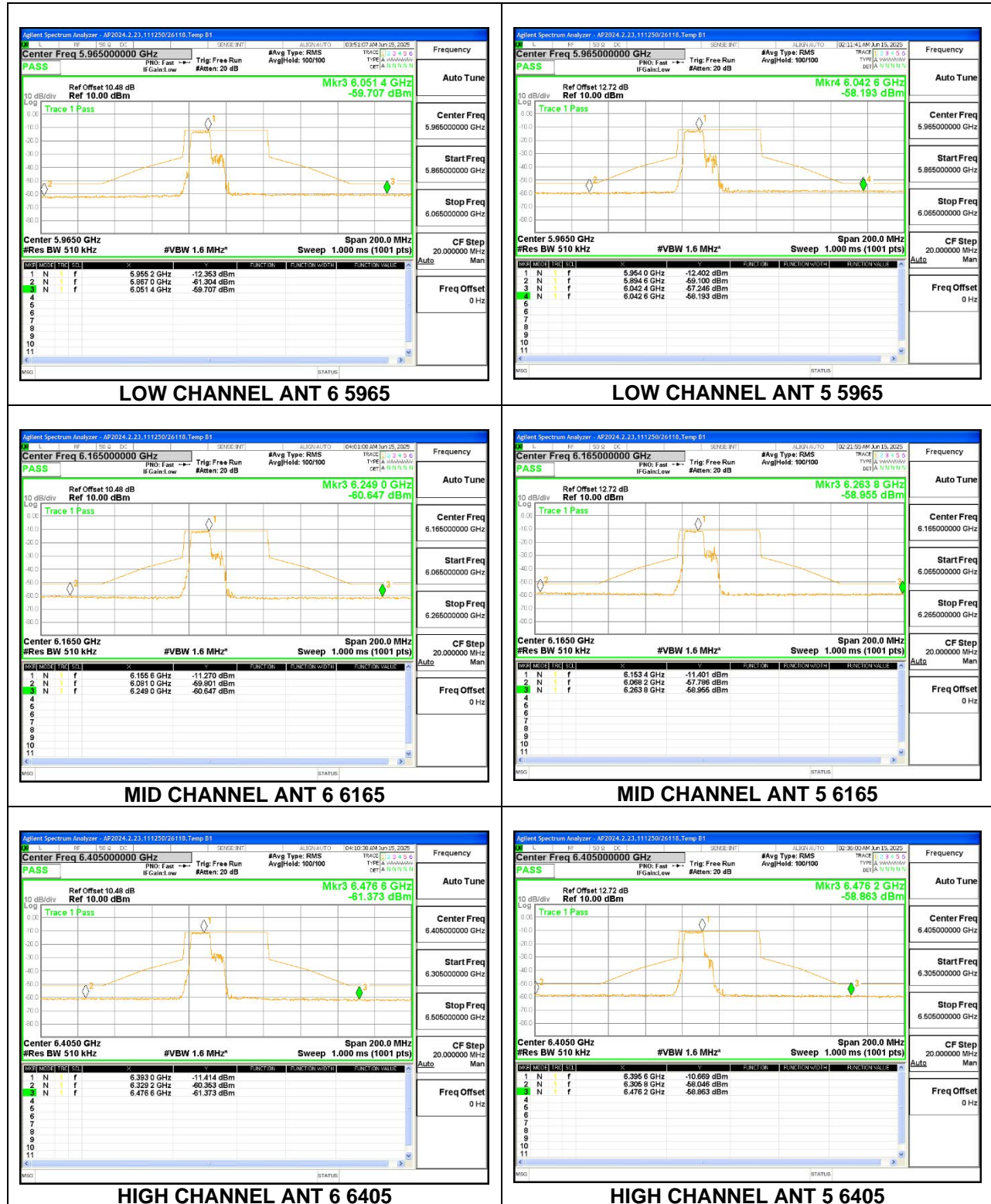
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82



1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 83**MID CHANNEL ANT 5 6165****1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 85****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 5 6165****HIGH CHANNEL ANT 5 6405**

1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26-Tone, RU Index 82

2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26-Tone, RU Index 83